



Environment

CubeSat Compatible High Resolution Thermal Infrared Imager

A small, adaptable, and stable high resolution thermal imaging system that provides more detailed spatial and temporal data from orbit.

The CubeSat Compatible High Resolution Thermal Infrared Imager is a technology with multiple applications. It can be flown on an aircraft, deployed on the International Space Station, launched on a ride-share as an entirely self-contained 3U CubeSat, flown on a small satellite, or be a co-manifested satellite instrument.

BENEFITS

- High quantum efficiency
- Broad spectral response
- Ease of fabrication
- Smallest and most compact, easily deployable scientific near/long wave infrared imager
- Easily configured for a Space Station facility instrument as a supplemental IR camera system

technology solution



NASA Technology Transfer Program

Bringing NASA Technology Down to Earth

THE TECHNOLOGY

This dual band infrared imaging system is capable of spatial resolution of 60 m from orbit and earth observing expected NEDT

APPLICATIONS

The technology has several potential applications:

- ➔ Environmental monitoring
- ➔ Space flight
- ➔ Meteorology

PUBLICATIONS

10306155

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NASA's Technology Transfer Program pursues the widest possible applications of agency technology to benefit US citizens. Through partnerships and licensing agreements with industry, the program ensures that NASA's investments in pioneering research find secondary uses that benefit the economy, create jobs, and improve quality of life.

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